NON-FERROUS SURGE BIASING COIL HAVING MULTIPLE PAIRS OF COILS POSITIONED AT ANGLES TO ONE ANOTHER

ABSTRACT

A surge suppression device includes a first and second coil positioned in close proximity to one another such that the windings of each coil are disposed at an angle thereto. In a preferred embodiment, the coils are disposed such that the windings of each coil are placed at a right angle (90 degrees) to one another. However, angles of varying degree can be employed. Varying configurations of the coil winding placement include a "sandwiched" type configuration, a "one on the top of the other" configuration as well as an intertwined configuration. Each embodiment employs additional surge elements such as metal oxide varistors (MOVs). It is unnecessary to employ any ferrous material core for any of the coils used in the novel device of the present invention.